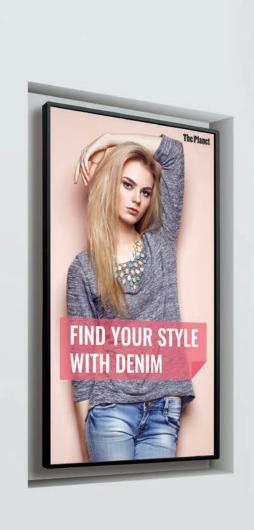


Be Original.



Professional LCD Monitor with Built-in SoC for Versatile Signage Solutions





A standalone signage solution with the flexibility and expandability to support various applications and usage styles. Thanks to its built-in SoC (System on a Chip) controller, the PN-B501/B401 delivers out-of-the-box digital signage solutions even without external devices such as PCs. What's more, the PN-B501/B401 comes standard with original software for simple content distribution and SHARP e-Signage S software for professional content creation and management. The PN-B501/B401 offers versatile solutions for a wide range of digital signage applications.

Out-of-the-Box Digital Signage Solution

Built-in SoC (System on a Chip)

The PN-B501/B401 has a powerful integrated SoC controller driven by the Arm® Cortex®-A17 quad core processor (max. 1.8 GHz) with 2 GB memory and 8 GB storage. It integrates Android™ OS (4.4) and comes pre-installed with several types of signage support software. This means the PN-B501/B401 is ready to display signage right out of the box, even without a PC. It is also compatible with various third-party Android apps, which further expands the usability.

Supports H.265/HEVC

The built-in SoC controller supports not only H.264/AVC but also H.265/HEVC, a next-generation high-efficiency video codec.

SHARP Open Architecture Platform

The PN-B501/B401 features the SHARP Open Architecture Platform, which allows third-party software developers to create custom signage applications that open up rich possibilities for digital signage in retail, office, and other settings.

Note: For details, please consult with your local authorised Sharp dealer or representative.

Flexibility and Expandability

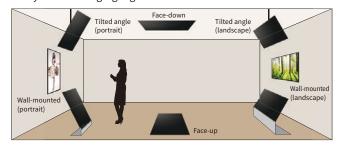
The PN-B501/B401 features excellent image quality and is designed for flexibility in a variety of settings. It comes with an Intel® Mini OPS-compatible expansion slot that gives you the added choice of expandability: an HDBaseT™ receiver board that supports various types of media and control signals or a wireless board for easy wireless connection with multiple devices.

Excellent Image Quality

Thanks to its 1,920 (H) x 1,080 (V)-pixel resolution, the PN-B501/B401 expresses all of the detail and visual impact of your selected full-HD content. A brightness of 300 cd/m 2 supports this LCD monitor in its digital signage duties.

Flexible Settings

Whether in a landscape or portrait orientation, the PN-B501/B401 can be installed face-up, face-down, or tilted forward or backward at an angle of up to 90 degrees. Designed for easy hanging installation, it can be suspended from four corners of the rear housing with wires. Such flexibility gives you more freedom to meet today's demanding signage needs.



Note: Please consult with your local authorised Sharp dealer or representative regarding tiltable angles and other installation conditions.

DisplayPort™ Daisy Chain

Multiple PN-B501/B401 monitors can be set up in a daisy chain configuration by connecting between the DisplayPort terminals, so you can display the same content simultaneously on all screens.

16-Hour Daily Operation

The PN-B501/B401 supports 16/7 operation, bringing reliable daily performance to retail, office, and many other locations.

Note: When POWER SAVE MODE is set to OFF, the integrated SoC controller stays on even in standby mode. It is highly recommended to reboot the OS once a day to maintain stable operation.

Support for HDBaseT 2.0 (Option)

Installing an optional HDBaseT Receiver Board (PN-ZB03H) allows the monitor to receive HDMI™ video, audio signals, and control signals sent up to 100 metres via a single LAN cable*¹. This brings convenient connectivity with HDMI devices such as PCs and BD players.

Compatibility with the HDBaseT 2.0 standard allows you to remotely operate a PC from a USB device connected to the optional board*². With HDBaseT 2.0 support, you can use fewer cables and reduce the time and cost of installation.



An optional board can slide into the slot on the back of the monitor.

- *1 Category 6 or higher shielded cable (available commercially)
- *2 Requires an HDBaseT 2.0-compatible transmitter (available commercially). Not all USB devices are supported.

Wireless Connectivity (Option)

An optional Wireless Board (PN-ZB03W) allows up to 10 devices—including Mac or Windows® computers, smartphones, and tablets—to connect to the PN-B501/B401 simultaneously without any cable hassles. You can display the content of one device on the whole screen, or you can display the content from up to four devices in a 2 x 2 split screen. This wireless collaboration is a great way to enhance productivity in the workplace.



Ready for Versatile Signage Support

A variety of signage support functions come standard with the PN-B501/B401. For an instant signage solution, the built-in media player allows you to easily use existing materials to make attractive signage. The integrated SoC also features an HTML5 browser that enables easy web-based signage operation. Furthermore, SHARP e-Signage S software opens up more advanced possibilities when it comes to creating, scheduling, delivering the signage programs, and monitoring status. It optionally supports networked operation and more advanced signage solutions. You have a streamlined solution designed to satisfy a range of signage needs.



Simple Standalone Signage

Autoplay with Media Player

Displaying still images or videos as signage content couldn't be easier. The built-in media player automatically starts playing the content that is stored either on USB memory device, SD card, or internal storage when the monitor is powered on. It also has a simple schedule function that allows you to pre-register seven patterns for when to start/stop the content playback. In a slideshow, you can add visual effects between the still images. You can make playlists that combine still images and videos. The PN-B501/B401 lets you enjoy the benefits of simple digital signage without any extra software, special skills, or even a PC.

Web-based Signage

Thanks to the HTML5 browser pre-installed on the SoC, web content can be easily shown on the PN-B501/B401 as signage content. All you need to do is enter the URL in the HTML5 browser.

Note: Requires Ethernet or optional wireless adapter. For more stable connection, Ethernet is recommended.

Easy Content Distribution

SHARP Content Distributor

This software makes it easy to update the content to be displayed on multiple LCD monitors. Through simple and intuitive PC operation, you can schedule *what* content gets distributed, *when* it gets delivered, and *which* monitors show it. Take advantage of a convenient signage solution that lets you distribute content in a timely manner to multiple monitors.



Intuitive drag-and-drop operation with thumbnail view

Easy editing of distribution schedules

Note: SHARP Content Distributor is available via the downloader on the bundled CD-ROM

Total Signage Support Software

SHARP e-Signage S

This versatile signage software provides total support for satisfying individual user needs in the creation, scheduling, distribution, and management of a wide range of signage programs for Sharp LCD monitors installed in offices, commercial establishments, public spaces, and many other locations. The PN-B501/B401 comes bundled with the standalone edition of SHARP e-Signage S software, accompanied with its player pre-installed on the integrated Android OS. SHARP e-Signage S software (standalone edition) lets you create/edit signage programs easily via simple drag-and-drop operation. You can intuitively lay out diverse content, such as still images, videos, HTML, and horizontal message bars, in a free layout frame to make attractive and suitable signage programs with minimal effort. You can also create display schedules and timetables and monitor the operational status of a designated PN-B501/B401. For more advanced signage functionality including program distribution via network, SHARP e-Signage Software offers you further choices.

| | Product name | No. of target monitors | No. of operation PCs | Distribution via network |
|--------------------|---------------|------------------------|----------------------|--------------------------|
| Standalone edition | Bundled | 1 | 1 | No |
| Network edition | PN-SS22 | Max. 100 | 1 | Yes |
| Pro edition | PN-SS25 | Max. 1,000 | 1 | Yes |
| Web server edition | PN-SW25 | Max. 1,000 | 1 to 50 | Yes |
| | 1 | 1 | | |
| Player | Pre-installed | | | |



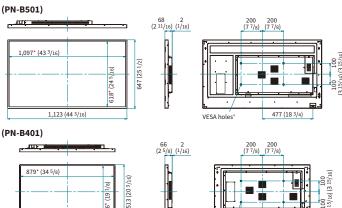
 $Note: The standalone\ edition\ of\ SHARP\ e-Signage\ S\ software\ is\ available\ via\ the\ downloader\ on\ the\ bundled\ CD-ROM.$

Specifications

| Model Name | | PN-B501 | PN-B401 | |
|--|----------------------------|---|--|--|
| Installation | | Landscape / Portrait / Face-up / Face-down | | |
| LCD Panel Max. Resolution Max. Display Colours (approx.) | | 50-inch-class (49 ½-inch [125.73 cm] diagonal) TFT LCD | 40-inch-class (39 ½-inch [100.33 cm] diagonal) TFT LCD | |
| | | 1,920 x 1,080 pixels | | |
| | | 16.77 million colours | | |
| | Pixel Pitch (H x V) | 0.5708 x 0.5708 mm | 0.45735 x 0.4494 mm | |
| | Max. Brightness*1 | 300 cd/m ² | | |
| | Contrast Ratio | 5,000:1 | | |
| | Viewing Angle (H/V) | 178°/178° (CR≥10) | | |
| | Active Screen Area (W x H) | 1,095.8 x 616.4 mm (43 ½" x 24 ½") 878.1 x 485.4 mm (34 ½" x 19 ½") | | |
| | Response Time | 9.5 ms (grey to grey, avg.) | | |
| | Backlight | LED, edge lit | | |
| Computer Input | Video | Analogue RGB (0.7 Vp-p) [75Ω], HDMI | | |
| | Synchronisation | Horizontal/vertical separation (TTL: positive/negative) | | |
| | Plug & Play | VESA DDC2B | | |
| | Power Management | VESA DPMS | | |
| Input Terminals*2 | | DisplayPort x 1, Mini D-sub 15-pin x 1, HDMI x 2, RS-232C x 1, 3.5 mm-diameter mini stereo jack x 1 | | |
| Output Terminals*2 | | DisplayPort x 1, RS-232C x 1, 3.5 mm-diameter mini stereo jack x 1 | | |
| Android | OS | Android 4.4 | | |
| | CPU | Quad Core (Arm Cortex-A17 processor) | | |
| | Memory | 2 GB | | |
| | Storage | 8 GB | | |
| | Input/Output Terminals | LAN port (10Base-T/100Base-TX/1000Base-TX), SD card slot (SD/SDHC) x 1, USB port (2.0-compliant) x 3 | | |
| Expansion Slot | | 12 V, 2.5 A (power supplied when expanding the functions with an optional part) | | |
| Speaker Output | | 7W+7W | | |
| Mounting | | VESA (4 points), 400 x 200 mm (15 ³ / ₄ " x 7 ⁷ / ₈ ") pitch, M6 screw | | |
| Power Supply | | 100 V – 240 V AC, 50/60 Hz | | |
| Power Consumption | | 120 W | 92 W | |
| Environmental Conditions | Operating Temperature*3 | 0°C to 40°C | | |
| | Operating Humidity | 20% to 80% RH (no condensation) | | |
| Dimensions (W x D x H) (approx.) (display only) | | 1,123 x 68 x 647 mm (44 ³ / ₁₆ " x 2 ¹¹ / ₁₆ " x 25 ¹ / ₂ ") | 902 x 66 x 513 mm (35 ½" x 2 ½" x 20 ½") | |
| Weight (approx.) | | 22 kg (49 lbs) | 15 kg (34 lbs) | |
| Main Accessories | | AC power cord, remote control unit, battery (AAA size) x 2, CD-ROM, set-up manual, cable clamp x 2, USB flash drive/SD card cover, USB flash drive/SD card cover fixing screw, logo sticker | | |

¹ Brightness depends on input mode and other picture settings. Brightness level will decrease slightly over the lifetime of the product. Due to the physical limitations of the equipment, it is not possible to maintain a precisely constant level of brightness. 2 Use a commercially available connection cable for PC and other video connections. 13 When using the monitor laying flat on a surface (when the monitor is tilted more than 20 degrees upward or downward from the perpendicular in relation to a level surface) the ambient temperature must be within the range of 0°C to 30°C. Temperature conditions may change when using the monitor together with the optional equipment. In such cases, check the temperature conditions specified by the optional equipment.

Dimensions



Units: mm (inch)

902 (35 1/2)

Screen dimensions To use the VESA-standard mounting bracket, use M6 screws that are 8 to 10 mm plus the thickness of the bracket.

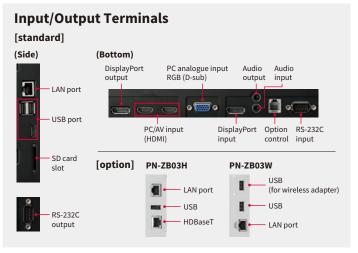
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Options

- PN-ZB03H: HDBaseT Receiver Board
- PN-ZB03W: Wireless Board
- PN-ZW01: Wireless Adapter

| PN-ZB03H HDBaseT Receiver Board | | | | |
|---------------------------------|---|--|--|--|
| Supported standard | HDBaseT 2.0 | | | |
| Max. resolution | 4,096 x 2,160 (30 Hz) | | | |
| Copy protection | HDCP pass-through | | | |
| Transmission distance | Up to 328 feet / 100 m | | | |
| Input/output terminals | HDBaseT x 1, LAN x 1 (10Base-T/100Base-TX), USB x 1 (USB 2.0) | | | |
| Power supply | From the monitor | | | |

| | PN-ZB03W Wireless Board | | |
|----|-------------------------------|--|--|
| | Max. resolution | 1,920 x 1,080 (30 Hz) | |
| | Wireless communication method | 2.4 GHz, IEEE802.11b/g/n 5 GHz, IEEE802.11a/n | |
| | Input/output terminals | LAN x 1 (10Base-T/100Base-TX), USB x 1 (USB 2.0), Wireless adapter x 1 (USB 2.0) | |
|), | Power supply | From the monitor | |
| | | | |

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